


<b>TRANSMITTAL LETTER TO THE UNITED STATES                  DESIGNATED/ELECTED OFFICE (DO/EO/US)                  CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>		ATTORNEY'S DOCKET NUMBER 123019-1051 (UHD 2228)  U.S. APPLICATION NO. (if known, see 37 CFR 1.5) <b>10/323127</b>
INTERNATIONAL APPLICATION NO. PCT/US2003/022318	INTERNATIONAL FILING DATE 7/17/03	PRIORITY DATE CLAIMED 7/22/02
TITLE OF INVENTION Method to Overcome Instability of Ultra-Shallow Semiconductor Junctions		
APPLICANT(S) FOR DO/EO/US Wei-Kan Chu, Lin Shao, and Jiarui Liu		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371. 3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. <input checked="" type="checkbox"/> The US has been elected (Article 31). 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input checked="" type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). a. <input type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).  Items 11 to 20 below concern document(s) or information included: 11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. <input type="checkbox"/> A preliminary amendment. 14. <input checked="" type="checkbox"/> An Application Data Sheet under 37 CFR 1.76. 15. <input type="checkbox"/> A substitute specification. 16. <input type="checkbox"/> A power of attorney and/or change of address letter. 17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825. 18. <input checked="" type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 20. <input checked="" type="checkbox"/> Other items or information: <b>International Search Report, Request for Rectification</b>		

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO. (if known, see 37 CFR 1.5)		INTERNATIONAL APPLICATION NO.		ATTORNEY'S DOCKET NUMBER	
10/523127		PCT/US2003/022318		123029-1051 (UHID 2228)	
21. The following fees are submitted:				Applicant use	Office use only
<input checked="" type="checkbox"/> a) Basic national fee..... \$300.00				\$ 300	
<input checked="" type="checkbox"/> b) Examination fee..... \$200.00				\$ 200	
<input checked="" type="checkbox"/> c) Search fee..... \$500.00				\$ 500	
TOTAL OF ABOVE CALCULATIONS = \$1000.00				\$ 1000	
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE		
14- 100 =	0 /50 =	0	x \$250.00	\$ -0-	
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				\$ 130.	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$	
Total claims	15 - 20 =	0	x \$50.00	\$ -0-	
Independent claims	2 - 3 =	0	x \$200.00	\$ -0-	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360.00	\$ -0-	
TOTAL OF ABOVE CALCULATIONS =				\$ 1130	
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.				\$ 565	
SUBTOTAL =				\$ 565	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$ -0-	
TOTAL NATIONAL FEE =				\$ 565	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				\$ -0-	
TOTAL FEES ENCLOSED =				\$ 565	
Amount to be refunded:					\$
Amount to be charged					\$
a. <input checked="" type="checkbox"/> A check in the amount of \$ 565.00 to cover the above fees is enclosed.					
b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.					
c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 07-0153. A duplicate copy of this sheet is enclosed.					
d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.					
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.					
SEND ALL CORRESPONDENCE TO:					
Tim Headley Gardere Wynne Sewell LLP 1000 Louisiana, Suite 3400 Houston, TX 77002 Telephone: (713) 276-5320 Fax: (713) 276-6320 Email: theadley@gardere.com					
				 SIGNATURE Tim Headley NAME 31,765 REGISTRATION NUMBER	

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Wei-Kan Chu  
Lin Shao  
Jiarui Liu

Application Number: Not Assigned

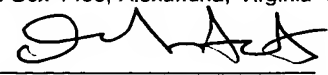
Filed: January 21, 2005

Group Art Unit: Not Assigned

Examiner: Not Assigned

For: Method to Overcome Instability of  
Ultra-Shallow Semiconductor Junctions

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

CERTIFICATE OF MAILING	
I hereby certify that this document is being deposited on this day with the U.S. Postal Service as, Express Mail under 37 C.F.R. 1.10 and is addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.	
	
Signature of Person Mailing Correspondence	
Deborah Fouts	
Typed or Printed Name of Person Mailing Correspondence	
Date of Signature:	1/21/05
EV 451433664 US	
Express Mail Label Number	

## TRANSMITTAL LETTER

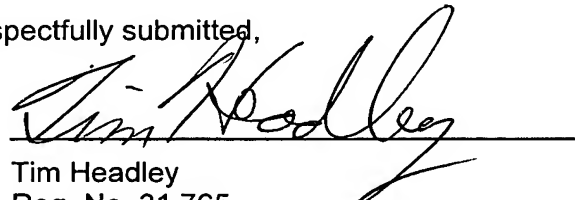
1. Transmittal Letter to the U.S. Designated/Elected Office (DO/EO/US) Concerning a Filing Under 35 U.S.C. 371;
2. Application Data Sheet;
3. Copy of Published Application;
4. Copy of Search Report
5. Copy of Request for Rectification;
6. Check for \$565; and
7. Postcard.

Applicants believe that no additional fees are required for this filing. If this is incorrect, Applicants authorize the Commissioner to charge any fees to Deposit Account No. 07-0153.

Respectfully submitted,

Date: January 21, 2005

By:

  
Tim Headley  
Reg. No. 31,765  
Gardere Wynne Sewell LLP  
1000 Louisiana, Suite 3400  
Houston, Texas 77002-5011  
Telephone: (713) 276-5320  
Fax: (713) 276-6320  
Email: theadley@gardere.com

## IN THE UNITED STATES INTERNATIONAL SEARCHING AUTHORITY

International Application No.: PCT/US03/22318  
International Filing Date: 17 JULY 2003  
Title of Invention: METHOD TO OVERCOME INSTABILITY OF  
ULTRA-SHALLOW SEMICONDUCTOR  
JUNCTIONS  
Applicant: UNIVERSITY OF HOUSTON

Mail Stop PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

## CERTIFICATE OF MAILING

Express Mail No.: EY 451434545 US

Date of Deposit: 6/18/04

I certify that the accompanying paper is being deposited with the United States Postal Service and sent "Via Express Mail" service under 37 CFR 1.10 on the date indicated above and is addressed to the Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Washington, DC 20231.

Typed name: Deborah Foots

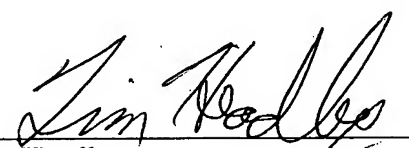
REQUEST FOR RECTIFICATION

Applicant respectfully requests rectification of an obvious error in the International Application under PCT Rules 91 and 91.1(e)(ii). The following obvious error, as published by WIPO, requires rectification:

(57) Abstract: Line 1, after "stable" change **unction** to **Junction**.

Applicant believes that no additional fees are due for the filing of this Request. However, if any additional fees are due, Applicant authorizes the RO/US to charge Deposit Account No. 07-0153.

Dated: 6-18-04

  
Tim Headley  
Registration No.: 31,765  
Gardere Wynne Sewell LLP  
1000 Louisiana Street, Suite 3400  
Houston, Texas 77002  
Phone: (713) 276-5320  
Fax: (713) 276-6320  
Email: theadley@gardere.com

# TRANSMITTAL LETTER TO THE UNITED STATES RECEIVING OFFICE

PTO-1382 (Rev. 04-2003) (Mod. 03)

PCTUS2.FRP /REV03

Date	10/525127 June 18, 2004
International Application No.	PCT/US03/22318
Attorney Docket No.	123029-2003

## I. Certification under 37 CFR 1.10 (if applicable)

DT05 Rec'd PCT/PTO 21 JAN 2005

EV 451434545 US
Express Mail mailing number

June 18, 2004
Date of Deposit

I hereby certify that the application/correspondence attached hereto is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.


Signature of person mailing correspondence

Deborah Foots
Typed or printed name of person mailing correspondence

## II. ☐ New International Application

TITLE	
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Earliest priority date (Day/Month/Year)

**SCREENING DISCLOSURE INFORMATION:** In order to assist in screening the accompanying international application for purposes of determining whether a license for foreign transmittal should and could be granted and for other purposes, the following information is supplied. (Note: check as many boxes as apply):

- A. ☐ The invention disclosed was **not** made in the United States.
- B. ☐ There is no prior U.S. application relating to this invention.
- C. ☐ The following prior U.S. application(s) contain subject matter which is related to the invention disclosed in the attached international application. (NOTE: priority to these applications may or may not be claimed on form PCT/RO/101 (Request) and this listing does not constitute a claim for priority).

application no.		filed on	
application no.		filed on	

- D. ☐ The present international application contains additional subject matter not found in the prior U.S. application(s) identified in paragraph C. above. The additional subject matter is found on pages  and ☐ DOES NOT ALTER ☐ MIGHT BE CONSIDERED TO ALTER the general nature of the invention in a manner which would require the U.S. application to have been made available for inspection by the appropriate defense agencies under 35 U.S.C. 181 and 37 CFR 5.1. See 37 CFR 5.15.

## III. ☐ A Response to an Invitation from the RO/US. The following document(s) is (are) enclosed:

- A. ☐ A Request for An Extension of Time to File a Response
- B. ☐ A Power of Attorney (General or Regular)
- C. ☐ Replacement pages:

pages		of the request (PCT/RO/101)	pages		of the figures
pages		of the description	pages		of the abstract
pages		of the claims			

- D. ☐ Submission of Priority Documents

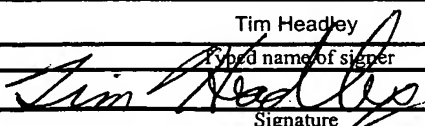
Priority document		Priority document	
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- E. ☐ Fees as specified on attached Fee Calculation sheet form PCT/RO/101 annex

## IV. ☒ A Request for Rectification under PCT 91 ☐ A Petition ☐ A Sequence Listing Diskette

## V. ☒ Other (please specify): Return postcard.

The person signing this form is the:

<input type="checkbox"/> Applicant		Tim Headley
<input checked="" type="checkbox"/> Attorney/Agent (Reg. No.) 31.765		Typed name of signer
<input type="checkbox"/> Common Representative		
		Signature

10/523127

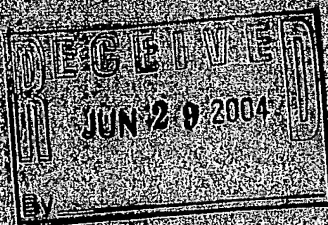
05 Rec'd PCT/PTO 21 JAN 2005

Attorney(s): Tim Headley  
Client/Matter#: 123029-2003  
Applicant(s): University of Houston  
Title: Method to Overcome Instability of Ultra-Shallow Semiconductor Junctions  
Today's Date: 6/18/03  
Check Amount: \$N/A  
Int'l Serial No.: PCT/US03/22318  
Int'l Filing Date: July 17, 2003  
Due Date:

**PCT FOR INTERNATIONAL PATENT**

<input type="checkbox"/> sheets PCT Request	<input type="checkbox"/> sheets Response
<input type="checkbox"/> sheets Description	<input type="checkbox"/> sheets Letter
<input type="checkbox"/> sheets Claims	<input checked="" type="checkbox"/> sheets Request for Rectification
<input type="checkbox"/> sheets Abstract	<input type="checkbox"/> sheets Transmittal Letter
<input type="checkbox"/> sheets Drawings	Other: <input type="checkbox"/>
<input type="checkbox"/> sheets Power	<input checked="" type="checkbox"/> Express Mail EV451434545US
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<input type="checkbox"/> sheets Fee Calculation	<input type="checkbox"/> Hand Delivery
<input type="checkbox"/> sheets Article 19 Amendment	
<input type="checkbox"/> sheets Article 34 Amendment	

DT02 Rec'd PCT/PTO 18 JUN 2004



03/24/00

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